Approved For Release 2003/03/15 : STARD 78B04747A000300020017-9

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	5 August 1971 Copy	
	MEMORANDUM FOR: Chief, Technical Services Group, NPIC	
	ATTENTION : Chief, Technical Operations Staff, TSG/NPIC SUBJECT : RED Monthly Report (July 1971)	
	. KED MONERTY Report (July 1971)	
	Significant Items of Interest for July 1971:	
25X1A 25X1A	1. Scan & Search PI Station - performed the acceptance tests on the optical system for this instrument during the first part of the month. The optics will be shipped the last week of July. This program is on schedule.	25X1A 25X1A
	2. Dry Color Reproduction Materials Program has succeeded in producing the first laboratory run of materials with three color layers. There was a little bleeding of the yellow dye, but this first effort was most encouraging. Tests indicate that the speed of this material is about the same as black-and-white dry silver. The material tested resolved the full 228 lines per millimeter of a high contrast target when reproduced using contact printing.	25X1A
25X1A	3. 10" by 10" Stereo Comparator - Preacceptance tests were performed during July at the facility and the instrument failed to meet several optical specifications. The contractor expects to have the deficiencies corrected so that tests can resume in early August.	
25X1A	4. High Precision Stereo Comparator - The installation of this instrument at NPIC has fallen several weeks behind schedule due to problems Logistics has encountered in controlling the temperature and humidity of the clean room site. Final alignment of the instrument cannot be accomplished until the environmental factors are brought under control. has submitted a request for compensation for the costs they have incurred in standby waiting for the clean room to be brought within specifications.	
25X1A 25X1A	5. Light Table demonstrated the fixes that could be made to meet the DIA requirements for use of a table for mensuration. The proposed modification appears to fill the DIA requirement. The demonstration was viewed by personnel from TSG, IEG, IAS, and DIA.	25X1 25X1
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Approved For Release 2003/05/15: CIA-RDP78B04747A000300020017-9 25X1 25X1 6. The UV Rear Projection Viewing System Evaluation has been NPIC and contractor photo interpreters were completed 25X1A used in this evaluation. The project report will be available next month. 7. The filar eyepiece developed for the Zoom 25X1 microscope is currently undergoing operational suitability tests in IEG. 25X1A (ESD) performed the preacceptance test on a Contrast Doubler Image Viewer prototype at This prototype unit will be delivered to NPIC during 25X1A August for test and evaluation by ESD and the operational components. demonstrated the improved vibration 25X1A characteristics which could be obtained on the Light Table 25X1A designed modifications to the optical mount and 25X1A bridge. A change-in-scope is contemplated in this contract to afford some further design changes. Optical Image Manipulation - The interactive OIM microscope has been delivered It is undergoing tests in 25X1A the ITL/ATB. Renewal of the Optical Sciences 11. 25X1A From FY-71 funds. Support contract has been approved at a cost of 25X1A Effective dates of the contract are 1 April 1971 - 31 March 1972. Tutorial sessions on coherence, microdensitometry, Photometry, and lens design will be conducted for NPIC per-25X1A sonnel during the course of the contract. 25X1D 13. Optical Power Spectrum Phase II - Status reports were given community representatives. Data was collected using the 25X1 25X1 Dupe Material Study imagery. Results indicated the OPS technique agrees with P.I. judgments. TOP SECRET

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25X1A	Personnel Visit NPIC for Program Review visited NPIC to discuss the Color Equipment Investigation Program. While they were here, they discussed a special color matching problem with DDP/TSD; they were also briefed on operational	25X1	Δ
25X1A	clearances in preparation for the consultation task of the contract. Based on the discussions, a trip will be made in August	25X1 25X1	£
	ATB to set up the test plan for the first test of unconventional films. The test plan will be submitted to ATB for approval during August. After approval, the tests will be started; measurements of speed, resolution, contrast control, and coating uniformity will be made on dry silver, diazo, free radical and other unconventional films.	25X1	Α
25X1A	16. Imagery Experimentation Support - The T&M contract with was completed 30 June. The last phase of the contract supported the Arms Control and Disarmament Agency's program to determine activated missile sites with reconnaissance photography.		
25X1A	17. completed a personal services contract on 30 June with the submission of data from an extensive stereo-vision testing program conducted under his supervision	25X1	
25X1A	The program is a follow-on to stereo test development program. A new contract request will be submitted in mid-August.	25X1	7
25X1A	has requested supplemental funding and a no-cost, time-only extension to complete work on their program, "Training Needs Associated with Color Photography."	25X1	7
	19. Diagnostic Computer Routine Partial delivery has been made on the programs and documentation manuals. A change-in-scope for the remaining programming effort has been proposed and is still under consideration.	25X1	Α
25X1A	The contract has been negotiated and we are now awaiting clearance of the appropriate personnel. However, control of the program has been transferred to PSG; RED's role will be limited to providing consulting services relating to the technologies involved and contractual monitorship.	25X1	<i> </i>
	21. Stereo Scanning Utility Study personnel actively started the preparation phase of this study during July. The	25X1	Α
	work area assigned and equipped for this task is in APSD former office).	25X1	Α
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	22. Wide-Field, High-Power Anamorphic Stereoviewer After a lengthy period of inactivity on this project (due to uncer-	25X1A
	tainty about costs to complete) has been directed to proceed with the bench test of one complete optical path. In addition, they will start procurement of components needed for final fabrication subsequent to, and dependent upon, a successful bench test.	25X1A
	23. Image Comparison Microstereoscope Predelivery acceptance was delayed in order to make several minor last-minute fixes and adjustments. Current plans are that these fixes will be completed and the instrument will be delivered on 13 August to NPIC.	25X1A
	24. CRT Image Quality Study This contract was effective as of 15 July. The first tasks (now underway) are procurement and assembly of test hardware and the detailed definition of the test	25X1A
	programs. IEG personnel are actively involved in the latter. A detailed test program should be ready for NPIC approval about the middle of August.	25X1
	25. Viewing Systems Handbook Delivery of Volume I is expected in early August and will be distributed shortly thereafter. Work on Volume II has commenced.	25X1A
	26. Target Indexing Device Implementation (In-House) - The TID is undergoing T&E acceptance is expected shortly. Modifications to the software will be made soon by the contractor. This corrective program is being delayed pending approval of a maintenance contract	
		25X1D
25	28. Automated Coordinate Study Work on this project has been slow due to the move lowever, the purchase and assembly of equipment necessary for the study is progressing.	25X1A 25X1A 25X1D
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	22. Meetings, Briefings, etc.:	
25X1A	a. On 13 July attended a coordination	
25X1A	for the Air Force.	
25X1A	demonstrated the on-line computer capability of the new NPIC Contract Information Program to RED Branch Chiefs on 20 July and on 26 July. This system is currently fully interfaced with the DDS&T Contract Information System.	25X1
25X1A	c. demonstrated the progress achieved in the automatic pointing task of Contract to IEG/PHD, TSG/APSD, and TSG/RED.personnel. A significant improvement in the edge pointing mode was noted.	25X1
	d. As a result of the briefing given by the AFSPPF, Westover AFB, to the Color Task Force on the production of black-and-white reproductions from original color acquisition film on 30 July, a meeting was held between the Air Force representative and the Exploratory Laboratory. Because of the mutual interest in this system, it is expected that a joint-in-house research effort will be initiated.	
	e. Personnel from TSD were shown the film processor. The unit has a number of features desirable for the types of processing required by them, and they may be interested in purchasing one with some modifications.	25X1
25X1A	f. On 8-9 July attended the Color Technology for Management course The course covered set-up, control, and costs associated with color measurement for suppliers and users of colored materials.	25X1
	g. On 9 July,	25X1
25X1A	A total review	25X1
	of the DIM program work, as well as an overview of optical power spectrum results to date, was presented and to attending DDS&T personnel.	25X1
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25X1A	h.	conducted the following briefings	
		1) On 8 July, the NPIC Group Chiefs were briefed on the proposed FY-72 Imagery Interpretation search Program. The Acting Executive Director, was briefed on 9 July, and the Executive Director NPIC will be briefed early in August.	Re- NPIC,
	# 1 1	2) On 19 July, representatives from the Clinical Di Office of Medical Services, were briefed on the Vision Testing Program. Follow-on meetings with and Center management are tentatively scheduled August.	Center's IEG
		3) On 22 July, the Chief, DIA-8, and his staff were on the Center's Vision Testing Program. DIA subrequested NPIC support in conducting a stereo-vitest with materials developed under the Imagery pretation Research Program. The testing program 26 July under the supervision of ATB/HFS summer intern.	sequently sion Inter-
	i.	On 28 July, the EXRAND members were briefed on the P Training Program. DIA-8 staff and DIA analysts will briefed at the Pentagon on 3 August.	I and PG be
	j.	On 23 July, APSD personnel were briefed on the final of the PI phase of the Emulsion Evaluation Program. sive series of briefings will be given Center and comanagement through 16 August.	Exten- mmunity
	k.	On 6 Into Chine(ATR)	25X1A
25X1A	Λ.	On 6 July, Chief/ATB visited to investigate their possibilitie	25X1A
		potential follow-on contract in the contract are	25X1A
		has an impressive capability which includes 10 ph interpreters, a fully cleared vault area, dedicated	oto- 25X1 computer, 25X1
		and considerable work in the image processing area,	similar
		to that being done	25X1A
	23.	Training:	
	a.	From 12-23 July, attended an intensi short course in Design and Analysis of Engineering E	
		ments given Was very effective because it emphasized the applica of statistical methods to practical problems. Sever short-cut and small sample size statistical tests we presented.	ining 25X1A tion al
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25X1A	battended the one-week course,Advanced Color Measurement	
25X1A	This course (under the direction described in detail many of the aspects of colorimetry, color difference calculation, and color specification in both classroom and laboratory sessions.	25X1
25X1A	24. Personnel:	
	Deputy Chief Research & Engineering Division, TSG/NPIC	
Fig.		
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